



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application Zhongming Shi, et al.  
of:

Serial No. 10/052,870

Filed: January 18, 2002

For: A Direct Conversion RF  
Transceiver for Wireless  
Communication

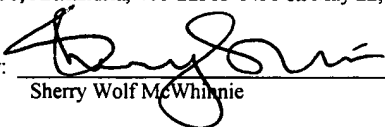
Art Unit.: 2638

Conf. No.: 1734

Examiner: Perilla, Jason M.

CERTIFICATE OF MAILING UNDER RULE 8

I hereby certify that this correspondence is being deposited in the United States Mail under 37 C.F.R. § 1.8 with sufficient First Class Postage and is addressed to: Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on May 22, 2006.

By:   
Sherry Wolf McWhinnie

Mail Stop AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**REQUEST TO CORRECT INVENTORSHIP UNDER 37 C.F.R. 1.48(a)**

Dear Sir:

The Applicant hereby requests that the inventorship in the present application be amended to include Arya Behzad. Mr. Behzad was left off of the original declaration and assignment without deceptive intent on his part or on the part of anyone associated with this application. Mr. Behzad specifically states in a declaration attached hereto that the error in inventorship occurred without deceptive intent on his part as is required by 37 C.F.R. 1.48(a)(2). Specifically, the following are being submitted herewith this request:

1. A new declaration executed by all inventors;
2. Copy of authorization ltr executed by H. Samuelli (dated 02/08/2005);
3. Copy of authorization ltr executed by D. Henderson re: CN 51472 (dated 02/01/2006);

05/30/2006 HDETA1 0000033 10052870

01 FC:1464 130.00 OP

4. Copy of POA (Form PTO/SB/80) executed by Dee Henderson (dated 02/01/2006);
5. Statement Under 37 CFR 3.73(b) (Form PTO/SB/96);
6. A new assignment executed by all inventors;
7. Declaration by Arya Behzad executed May 11, 2006 that the error occurred without deceptive intent on his part; and
8. Declaration surcharge fee.

The Commissioner is authorized to charge any additional fees and/or credit any overpayment to Deposit Account No. 50-2126 (ref BP 1985).

Respectfully submitted,

Date: May 22, 2006

By: /James A. Harrison, Reg. No. 40,401/  
James A. Harrison

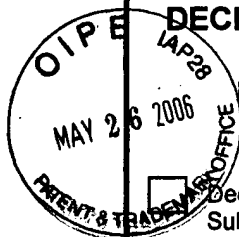
**Garlick, Harrison & Markison**  
P.O. Box 160727  
Austin, TX 78716-0727  
Telephone: (214) 902-8100  
Facsimile: (214) 902-8101

Please type a plus sign (+) inside this box ☐

PTO/SB/01 (10\_00)

Approved for use through 10/31/2002. OMB 0651-0035  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

☐ Declaration  
Submitted  
with Initial  
Filing

OR

☒ Declaration  
Submitted after initial  
Filing (surcharge  
(37 CFR 1.16(e))  
required)

Attorney Docket Number BP1985

First Named Inventor Zhongming Shi

**COMPLETE IF KNOWN**

Application Number 10/052,870

Filing Date 1/18/2002

Group Art Unit

Examiner Name

**As a below named inventor, I hereby declare that:**

**My residence, mailing address, and citizenship are as stated below next to my name.**

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**A DIRECT CONVERSION RF TRANSCEIVER FOR WIRELESS COMMUNICATION**

the specification of which

(Title of the Invention)

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY)

1/18/2002

as United States Application Number or PCT International

Application Number 10/052,870

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checkign the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Applications Numbers(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy YES	Attached? NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119 (e), 120, or 365 (c) of any U.S. or PCT application(s) listed below.

Application Numbers(s)	Filing Date (MM/DD/YYYY)	
		<input type="checkbox"/> Additional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

Please type a plus sign (+) inside this box — +

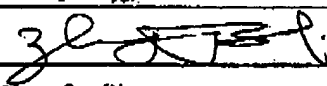
PTO/SB/01 (10\_00)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**DECLARATION - Utility or Design Patent Application**

Direct all correspondence to: <input checked="" type="checkbox"/> Customer Number or Bar Code Label				51,472		OR <input type="checkbox"/> Correspondence address below	
Name James A. Harrison							
Address P.O. Box 160727							
Address							
City Austin				State TX		ZIP 78716-0727	
Country USA				Telephone (214) 902-8100		FAX (214) 902-8101	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.							
NAME OF SOLE OR FIRST INVENTOR:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any]) Zhongming				Family Name or Surname Shi			
Inventor's Signature 				Date 5/14/2006			
Residence: City San Diego				State CA		Country USA	
				Citizenship China			
Mailing Address 8815 Adobe Bluffs Drive							
Mailing Address							
City San Diego				State CA		ZIP 92129	
				Country USA			
NAME OF SECOND INVENTOR:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any]) Ahmadrza (Reza)				Family Name or Surname Rofougaran			
Inventor's Signature				Date			
Residence: City Newport Coast				State CA		Country USA	
				Citizenship USA			
Mailing Address 33 Vista Luci							
Mailing Address							
City Newport Coast				State CA		ZIP 92657	
				Country USA			
<input type="checkbox"/> Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheets(s) PTO/SB/02A attached hereto.							

Please type a plus sign (+) inside this box — +

PTO/SB/01 (10-00)

Approved for use through 10/31/2002. OMB 0851-0035  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**DECLARATION - Utility or Design Patent Application**

Direct all correspondence to: <input checked="" type="checkbox"/> Customer Number or Bar Code Label		51,472		OR <input type="checkbox"/> Correspondence address below	
Name James A. Harrison					
Address P.O. Box 160727					
Address					
City Austin			State TX		ZIP 78716-0727
Country USA		Telephone (214) 902-8100		FAX (214) 902-8101	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.					
NAME OF SOLE OR FIRST INVENTOR:			<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle [if any]) Zhongming			Family Name or Surname Shi		
Inventor's Signature				Date	
Residence: City San Diego		State CA	Country USA	Citizenship China	
Mailing Address 8815 Adobe Bluffs Drive					
Mailing Address					
City San Diego		State CA	ZIP 92129	Country USA	
NAME OF SECOND INVENTOR:			<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle [if any]) Almadreza (Reza)			Family Name or Surname Rofnageran		
Inventor's Signature				Date 5-15-2006	
Residence: City Newport Coast		State CA	Country USA	Citizenship USA	
Mailing Address 33 Vista Luci					
Mailing Address					
City Newport Coast		State CA	ZIP 92657	Country USA	
<input type="checkbox"/> Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.					

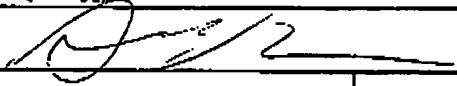
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>NAME OF THIRD INVENTOR:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any]) Arya Reza		Family Name or Surname Behzad	
Inventor's Signature 		Date 5/13/06	
Residence: City Poway	State CA	Country USA	Citizenship USA
Mailing Address 13708 Paseo de las Cumbres			
Mailing Address			
City Poway	State CA	ZIP 92064	Country USA
<b>NAME OF FOURTH INVENTOR:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address			
City	State	ZIP	Country USA
<b>NAME OF FIFTH INVENTOR:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address			
City	State	ZIP	Country



**BROADCOM CORPORATION**  
16215 Alton Parkway, P.O. Box 57013  
Irvine, California 92619-7013

Phone: 949-450-8700  
Fax: 949-450-8710

February 8, 2005

To whom it may concern:

I, Henry Samueli, hereby authorize Dee Henderson, Senior Manager, Intellectual Property Administration, to execute documents relating to US and foreign patent and trademark matters on behalf of Broadcom Corporation and/or its subsidiaries.

A handwritten signature in cursive script, appearing to read 'H Samueli', written in black ink.

Henry Samueli, Ph.D.  
Chief Technical Officer



**BROADCOM CORPORATION**  
16215 Alton Parkway, P.O. Box 57013  
Irvine, California 92619-7013

Phone: 949-450-8700  
Fax: 949-450-8710

February 01, 2006

**TO WHOM IT MAY CONCERN**

I, Dee Henderson, do hereby authorize the practitioners associated with USPTO (United States Patent and Trademark Office) Customer Number 51472 (whose information is provided below) to act on behalf of the Assignee, Broadcom Corporation, in patent related matters before the USPTO.

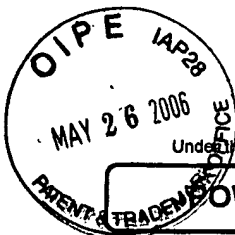
This authorization granted to practitioners associated with USPTO Customer Number 51472 includes the authorization to execute statements made under 37 C.F.R. §3.73(b) on behalf of the Assignee, Broadcom Corporation.

A handwritten signature in black ink, appearing to read "Dee Henderson", is written over a horizontal line.

Dee Henderson  
Senior Manager, Intellectual Property Administration

**USPTO CN 51472**  
Garlick Harrison & Markison LLP  
P.O. Box 160727  
Austin, Texas 78716-0727  
TEL: (512) 264-8816  
FAX: (512) 264-3735





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PTO/SB/80 (01-06)  
Approved for use through 12/31/2008. OMB 0651-0035  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

## POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

☒ Practitioners associated with the Customer Number:

51472

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

☒ The address associated with Customer Number:

51472

OR

<input type="checkbox"/> Firm or Individual Name	Garlick Harrison & Markison LLP		
Address	P.O. Box 160727		
City	Austin	State	Texas
Country	USA		
Telephone	(512) 264-8816	Email	(512) 264-3735

Assignee Name and Address:  
Broadcom Corporation  
16215 Alton Parkway  
Irvine, California 92618-7013

Note: Broadcom Corporation is a California corporation

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

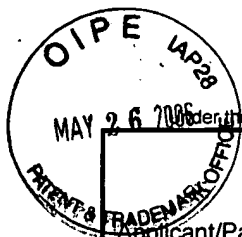
### SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	2/1/06
Name	Dee Henderson	Telephone	(949) 450-8700
Title	Senior Manager, Intellectual Property Administration		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Zhongming Shi, Ahmadreza (Reza) Rofougaran, Arya Reza Behzad

Application No./Patent No.: 10/052,870 Filed/Issue Date: 01/18/2002

Entitled: Method for Transconductance Linearization for DC-Coupled Applications

Broadcom Corporation, a California Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/James A. Harrison, Reg. No. 40,401/

May 22, 2006

Signature

Date

James A. Harrison

(214) 902-8100

Printed or Typed Name

Telephone Number

Practitioner associated with USPTO CN 51,472

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

U.S. Utility Patent Appl. Serial No.: 10/052,870  
U.S. Utility Patent Appl. Filing Date: 01/18/2002  
U.S. Patent No.: \_\_\_\_\_  
U.S. Patent Issue Date: \_\_\_\_\_

**ASSIGNMENT**

**WHEREAS**, the undersigned inventor(s), hereinafter called the "Assignors", have invented a new and useful invention entitled:

**A DIRECT CONVERSION RF TRANSCEIVER FOR WIRELESS COMMUNICATION**

for which reference a full description is here made in an application for Letters Patent of the United States filed herewith or that was filed with the United States Patent and Trademark Office on the 18th day of January, 2002. The Assignors believe himself/herself/themselves to be the original inventor(s) of the invention disclosed and claimed in the application for Letters Patent.

**WHEREAS**, The entity identified immediately below having a principal office and place of business as identified, hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

**Broadcom Corporation, a California Corporation**  
16215 Alton Parkway  
Irvine, CA, USA 92618-7013

**NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN**, be it known that for valuable legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, any and all provisional patent applications from which the application claims priority, and all Letters Patents that may issue for the said invention, and all division, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

**FURTHER**, be it known that the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignors do hereby covenant and agree, for themselves and their legal representatives, that they will assist the Assignee in the prosecution of the application herein

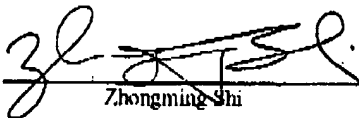
Docket No. BP1985

identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, and facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of the United States Patent and Trademark Office is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

**IN TESTIMONY WHEREOF**, the Assignors have hereunto set their hands on the date indicated below. The undersigned hereby authorizes and requests the attorneys and/or agents of record in the application above identified, and in, to and under Letters Patent which may be obtained for said invention, to insert in this assignment the filing date and serial number of said application (and/or issue date and patent number of said corresponding Letters Patent) when officially known, if applicable.

**Inventor(s):**

 5/14/2006  
\_\_\_\_\_  
Zhongming Shi Date

\_\_\_\_\_  
Ahmadreza (Reza) Rofougaran Date

\_\_\_\_\_  
Arya Reza Behzad

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

\*\* TOTAL PAGE 05 \*\*

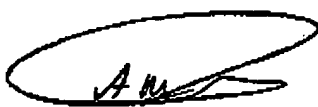
Docket No. BP1985

identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, and facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of the United States Patent and Trademark Office is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignors have hereunto set their hands on the date indicated below. The undersigned hereby authorizes and requests the attorneys and/or agents of record in the application above identified, and in, to and under Letters Patent which may be obtained for said invention, to insert in this assignment the filing date and serial number of said application (and/or issue date and patent number of said corresponding Letters Patent) when officially known, if applicable.

Inventor(s):

<u>Zhongming Shi</u>	<u>Date</u>		<u>5-15-2006</u>
		<u>Ahmadreza (Reza) Rofongaran</u>	<u>Date</u>
<u>Arya Reza Behzad</u>	<u>Date</u>	<u></u>	<u>Date</u>
<u></u>	<u>Date</u>	<u></u>	<u>Date</u>


Docket No. BP1985

identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, and facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of the United States Patent and Trademark Office is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

**IN TESTIMONY WHEREOF**, the Assignors have hereunto set their hands on the date indicated below. The undersigned hereby authorizes and requests the attorneys and/or agents of record in the application above identified, and in, to and under Letters Patent which may be obtained for said invention, to insert in this assignment the filing date and serial number of said application (and/or issue date and patent number of said corresponding Letters Patent) when officially known, if applicable.

**Inventor(s):**

_____ Zhongming Shi	_____ Date	_____ Ahmadreza (Raza) Rofougaran	_____ Date
 Arya Reza Behzad	5/13/06 _____ Date	_____	_____ Date
_____	_____ Date	_____	_____ Date

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re: Application of Zhongming Shi, et al.  
Serial Number: 10/052,870  
Filed: January 18, 2002  
For: A Direct Conversion RF Transceiver for Wireless Communication


**DECLARATION BY ARYA BEHZAD**

Dear Sir:

I was left off of the declaration for the above referenced application through error made without deceptive intent on my part. I further believe that the error was made without deceptive intent on the part of the other named inventors and on the part of anyone associated with the present application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

5/11/06  
date

  
Arya Behzad  
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Poway, CA, 92064